## Exploring Photosynthesis with NASA Remote Sensing Data *Lesson Parameter Hint Table*

<b>Lesson Parameters</b>	<b>Individual Effects on</b>	Helpful Hints
	FPAR	
SW Downward Flux	More sunlight reaching the	When more incoming
(incoming sunlight)	Earth's surface provides a	sunlight (within the
	greater potential for <i>higher</i>	photosynthetic range) is
	FPAR values.	available to vegetation the
		chances of higher FPAR
		values exist.
		SW Downward Flux
		decrease with Higher Cloud
		Cover Precentages.
Precipitation	Adequate precipitation	Sufficiently hydrated
	amounts aid vegetation in	vegetation is more efficient
	canopy processes resulting	at canopy processes,
	in <i>higher</i> FPAR values.	including the ability to
		absorb photosynthetically
		active radiation (FPAR).
Aerosol Optical Depth	Larger Aerosol Optical	Aerosols in the atmosphere
	<b>Depth</b> values tend to result	tend to absorb and block out
	in <i>lower</i> FPAR values.	incoming sunlight. The
		thicker the aerosol optical
		depth, the harder it is for
		sunlight to reach ground
		vegetation, directly
		decreasing FPAR values.
		Sometimes higher
		precipitation amounts can
		decrease Aerosol Optical
		Depth.
Cloud Coverage	A larger percentage of	Like aerosols, clouds block
	<i>Cloud Coverage</i> tends to	incoming sunlight,
	result in a <i>lower</i> FPAR value.	decreasing the possible
		amount of light available to
		reach ground vegetation.
		Resulting in a lower FPAR
		value.
		A higher percentage of Cloud
		Coverage decreases SW
		Downward Flux reaching the
		Earth's surface.